

FORM PTO-1390 (REV 12-2004)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER <b>4115-186</b>
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>				U.S. APPLICATION NO. (If known. see 37 CFR 1.5)
INTERNATIONAL APPLICATION NO. <b>PCT/US2003/019779</b>		INTERNATIONAL FILING DATE <b>20 June 2003</b>		<b>10/518108</b>
				PRIORITY DATE CLAIMED <b>20 June 2002</b>
<b>TITLE OF INVENTION</b> <b>SCAFFOLDED MALEIMIDE CLUSTERS FOR MULTIVALENT PEPTIDE ASSEMBLY</b> <b>APPLICANT(S) FOR DO/EO/US</b> WANG, Lai-Xi; NI, Jiahong; LI, Hengguang; and SINGH, Suddam				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  <b>Items 11 to 20 below concern document(s) or information included:</b> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input type="checkbox"/> Other items or information:				

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER																																																																													
<b>10/518108</b>		PCT/US2003/019779	4115-186																																																																													
<p>21. The following fees are submitted:</p> <table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>a) Basic national fee</td> <td>\$300.00</td> <td>\$300.00</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>b) Examination fee</td> <td>\$200.00</td> <td>\$200.00</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>c) Search fee</td> <td>\$500.00</td> <td>\$500.00</td> <td></td> </tr> <tr> <td colspan="2">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$1000.00</td> <td>\$1000.00</td> <td></td> </tr> </table> <p><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer listing filed in an electronic medium).  <input checked="" type="checkbox"/> The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.</p> <table border="1"> <thead> <tr> <th>Total Sheets</th> <th>Extra Sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>- 100</td> <td>/50 =</td> <td></td> <td>x 250.00</td> </tr> </tbody> </table> <p>Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).</p> <table border="1"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> <th>\$</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>15 - 20 =</td> <td>0</td> <td>X \$50.00</td> <td>\$ 0.00</td> </tr> <tr> <td>Independent claims</td> <td>3 - 3 =</td> <td>0</td> <td>X \$200.00</td> <td>\$ 0.00</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$360.00</td> <td>0</td> </tr> <tr> <td colspan="4"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td><b>\$ 1000.00</b></td> </tr> </tbody> </table> <p><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.</p> <table border="1"> <thead> <tr> <th colspan="2"><b>SUBTOTAL =</b></th> <th><b>\$500.00</b></th> </tr> </thead> <tbody> <tr> <td colspan="2">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).</td> <td>\$ 0.00</td> </tr> <tr> <td colspan="2"><b>TOTAL NATIONAL FEE =</b></td> <td><b>\$ 500.00</b></td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> <td>\$ 0.00</td> </tr> <tr> <td colspan="2"><b>TOTAL FEES ENCLOSED =</b></td> <td><b>\$ 500.00</b></td> </tr> <tr> <td colspan="2"></td> <td><b>Amount to be: refunded</b></td> <td><b>\$</b></td> </tr> <tr> <td colspan="2"></td> <td><b>charged</b></td> <td><b>\$</b></td> </tr> </tbody> </table> <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 08-3284 in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any deficiencies in filing fees which may be required, or credit any overpayment to Deposit Account No. 08-3284. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.</p> <p><b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b></p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Steven J. Hultquist    INTELLECTUAL PROPERTY/    TECHNOLOGY LAW    P.O. BOX 14329    Research Triangle Park, NC 27709</p> <p><i>Marianne Fuierer</i>    SIGNATURE</p> <p>Marianne Fuierer    NAME</p> <p>39983    REGISTRATION NUMBER</p>					<input checked="" type="checkbox"/>	a) Basic national fee	\$300.00	\$300.00		<input checked="" type="checkbox"/>	b) Examination fee	\$200.00	\$200.00		<input checked="" type="checkbox"/>	c) Search fee	\$500.00	\$500.00		TOTAL OF ABOVE CALCULATIONS =		\$1000.00	\$1000.00		Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	- 100	/50 =		x 250.00	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	Total claims	15 - 20 =	0	X \$50.00	\$ 0.00	Independent claims	3 - 3 =	0	X \$200.00	\$ 0.00	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	0	<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$ 1000.00</b>	<b>SUBTOTAL =</b>		<b>\$500.00</b>	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$ 0.00	<b>TOTAL NATIONAL FEE =</b>		<b>\$ 500.00</b>	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$ 0.00	<b>TOTAL FEES ENCLOSED =</b>		<b>\$ 500.00</b>			<b>Amount to be: refunded</b>	<b>\$</b>			<b>charged</b>	<b>\$</b>
<input checked="" type="checkbox"/>	a) Basic national fee	\$300.00	\$300.00																																																																													
<input checked="" type="checkbox"/>	b) Examination fee	\$200.00	\$200.00																																																																													
<input checked="" type="checkbox"/>	c) Search fee	\$500.00	\$500.00																																																																													
TOTAL OF ABOVE CALCULATIONS =		\$1000.00	\$1000.00																																																																													
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE																																																																													
- 100	/50 =		x 250.00																																																																													
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$																																																																												
Total claims	15 - 20 =	0	X \$50.00	\$ 0.00																																																																												
Independent claims	3 - 3 =	0	X \$200.00	\$ 0.00																																																																												
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	0																																																																												
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$ 1000.00</b>																																																																												
<b>SUBTOTAL =</b>		<b>\$500.00</b>																																																																														
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$ 0.00																																																																														
<b>TOTAL NATIONAL FEE =</b>		<b>\$ 500.00</b>																																																																														
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$ 0.00																																																																														
<b>TOTAL FEES ENCLOSED =</b>		<b>\$ 500.00</b>																																																																														
		<b>Amount to be: refunded</b>	<b>\$</b>																																																																													
		<b>charged</b>	<b>\$</b>																																																																													

10/518108  
DT12 Rec'd PCT/PTO 10 DEC 2004

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re United States Patent Application of:	)	Docket No.:	4115-186	
Applicant(s):	Wang, et al.	)	Examiner:	Not Yet Assigned
Application No.:	New U.S. National Stage Application of PCT International Application No. PCT/US2003/019779	)	Art Unit:	Not Yet Assigned
Int'l Filing Date:	20 June 2003	)	Customer No.:	
Priority Date:	20 June 2002(U. S. Provisional Application No. 60/390,776)	)		
Title:	SCAFFOLDED MALEIMIDE CLUSTERS FOR MULTIVALENT PEPTIDE ASSEMBLY	)		23448

**EXPRESS MAIL CERTIFICATE**

I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 and Express Mailed under the provisions of 37 CFR 1.10.

Joanna Joslyn  
Joanna Joslyn

December 10, 2004

Date

EO 003 352 001US

**SUBMISSION UNDER 35 U.S.C. §371 OF UNITED STATES PATENT APPLICATION  
(NATIONAL PHASE PROCEEDINGS) BASED ON INTERNATIONAL APPLICATION NO.  
PCT/US2003/019779 AND CLAIMING PRIORITY OF U. S. PROVISIONAL APPLICATION  
NO. 60/390,776**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

10/518108  
DT12 Rec'd PCT/PTO 10 DEC 2004

Submitted herewith for filing under the provisions of 37 CFR §1.53 and 35 U.S.C. §371 is the above-referenced patent application, based on International Patent Application No. PCT/US2003/019779 and claiming priority of U. S. Provisional Application No. 60/390,776. A copy of the PCT International application and related documents as originally filed are also included. Further included is a Preliminary Amendment, return postcard, a credit card form in the amount of \$500.00 and 35 U.S.C. §371 transmittal forms.

Please direct correspondence relating to this application to Steven J. Hultquist, Intellectual Property Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709, and direct telephonic communications relating to this application to Marianne Fuierer at (919) 419-9350.

Respectfully submitted,



Marianne Fuierer  
Registration No. 39,983  
Attorney for Applicants

**INTELLECTUAL PROPERTY/  
TECHNOLOGY LAW**  
P.O. Box 14329  
Research Triangle Park, NC 27709  
Tel: (919) 419-9350  
Fax: (919) 419-9354  
Attorney Ref.: 4115-186